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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-2.(Canceled)

3.(Previously Presented) A method for operating a code division multiple access communications system, comprising:

within a coverage area of a base station, assigning a set of spreading codes to individual ones of a plurality of subscriber stations; and

during transmissions within a cell, periodically hopping amongst individual ones of the spreading codes of the set of spreading codes such that at any given time no two subscriber stations operate with the same spreading code, wherein the set of spreading codes comprises a hopped sub-set of a larger set of spreading codes, and further comprising assigning a non-hopped sub-set of the larger set of spreading codes to individual ones of said plurality of subscriber stations for use on a system access channel.

4.(Previously Presented) A method for operating a code division multiple access communications system, comprising:

within a coverage area of a base station, assigning a set of spreading codes to individual ones of a plurality of subscriber stations; and

during transmissions within a cell, periodically hopping amongst individual ones of the spreading codes of the set of spreading codes such that at any given time no two subscriber stations operate with the same spreading code, wherein the set of spreading codes comprises a hopped sub-set of a larger set of spreading codes, and further comprising assigning a non-hopped sub-set of the larger set of spreading codes to individual ones of said plurality of subscriber stations for use on a system control channel.

5.(Previously Presented) A method for operating a code division multiple access communications system, comprising:

within a coverage area of a base station, assigning a set of spreading codes to individual ones of a plurality of subscriber stations; and

during transmissions within a cell, periodically hopping amongst individual ones of the spreading codes of the set of spreading codes such that at any given time no two subscriber stations operate with the same spreading code, wherein the set of spreading codes comprises a hopped sub-set of a larger set of spreading codes, and further comprising assigning a non-hopped sub-set of the larger set of spreading codes to individual ones of said

plurality of subscriber stations for use on a non-traffic channel.

6.(Previously Presented) A method for operating a code division multiple access communications system, comprising:

within a coverage area of a base station, assigning a set of spreading codes to individual ones of a plurality of subscriber stations; and

during transmissions within a cell, periodically hopping amongst individual ones of the spreading codes of the set of spreading codes such that at any given time no two subscriber stations operate with the same spreading code, wherein the step of periodically hopping changes from a currently used spreading code to a next spreading code at a symbol rate or at a multiple of the symbol rate.

7-8.(Canceled)

9.(Previously Presented) A method for operating a code division multiple access communications system, comprising:

within a coverage area of a base station, assigning a set of spreading codes to individual ones of a plurality of subscriber stations; and

during transmissions within a cell, periodically hopping amongst individual ones of the spreading codes of the set of spreading codes such that at any given time no two subscriber stations operate with the same spreading code, wherein the system is a variable data rate system and wherein the step of periodically hopping changes from a currently used spreading code to a next spreading code at the symbol rate, or at a multiple of the symbol rate of one of the lowest symbol rate users.

10.(Previously Presented) A method for operating a code division multiple access communications system, comprising:

within a coverage area of a base station, assigning a set of spreading codes to individual ones of a plurality of subscriber stations; and

during transmissions within a cell, periodically hopping amongst individual ones of

the spreading codes of the set of spreading codes such that at any given time no two subscriber stations operate with the same spreading code, wherein the system is a variable data rate system and wherein the step of periodically hopping changes from a currently used spreading code to a next spreading code at the symbol rate, or at a multiple of the symbol rate of the lowest spreading gain users.

11-12.(Canceled)

13.(Previously Presented) A code division multiple access communications system, comprising a controller operating within a coverage area of a base station for assigning a set of spreading codes to individual ones of a plurality of subscriber stations; and further comprising circuitry that is responsive to transmissions within a cell for periodically hopping amongst the set of spreading codes such that at any given time no two subscriber stations operate with the same spreading code, wherein the set of spreading codes comprises a hopped sub-set of a larger set of spreading codes, and where said controller further assigns a non-hopped sub-set of the larger set of spreading codes to individual ones of said plurality of subscriber stations for use on a system access channel.

14.(Previously Presented) A code division multiple access communications system, comprising a controller operating within a coverage area of a base station for assigning a set of spreading codes to individual ones of a plurality of subscriber stations; and further comprising circuitry that is responsive to transmissions within a cell for periodically hopping amongst the set of spreading codes such that at any given time no two subscriber stations operate with the same spreading code, wherein the set of spreading codes comprises a hopped sub-set of a larger set of spreading codes, and where said controller further assigns a non-hopped sub-set of the larger set of spreading codes to individual ones of said plurality of subscriber stations for use on a system control channel.

15.(Previously Presented) A code division multiple access communications system, comprising a controller operating within a coverage area of a base station for assigning a set of spreading codes to individual ones of a plurality of subscriber stations; and further comprising circuitry that is responsive to transmissions within a cell for periodically hopping amongst the set of spreading codes such that at any given time no two subscriber stations

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operate with the same spreading code, wherein the set of spreading codes comprises a hopped sub-set of a larger set of spreading codes, and where said controller further assigns a nonhopped sub-set of the larger set of spreading codes to individual ones of said plurality of subscriber stations for use on a non-traffic channel.

16.(Previously Presented) A code division multiple access communications system, comprising a controller operating within a coverage area of a base station for assigning a set of spreading codes to individual ones of a plurality of subscriber stations; and further comprising circuitry that is responsive to transmissions within a cell for periodically hopping amongst the set of spreading codes such that at any given time no two subscriber stations operate with the same spreading code, wherein said circuitry changes from a currently used spreading code to a next spreading code at a symbol rate or at a multiple of the symbol rate.

17-18.(Canceled)

19.(Previously Presented) A code division multiple access communications system, comprising a controller operating within a coverage area of a base station for assigning a set of spreading codes to individual ones of a plurality of subscriber stations; and further comprising circuitry that is responsive to transmissions within a cell for periodically hopping amongst the set of spreading codes such that at any given time no two subscriber stations operate with the same spreading code, wherein the system is a variable data rate system and wherein the step of periodically hopping changes from a currently used spreading code to a next spreading code at the symbol rate, or at a multiple of the symbol rate of the lowest symbol rate users.

20.(Previously Presented) A code division multiple access communications system, comprising a controller operating within a coverage area of a base station for assigning a set of spreading codes to individual ones of a plurality of subscriber stations; and further comprising circuitry that is responsive to transmissions within a cell for periodically hopping amongst the set of spreading codes such that at any given time no two subscriber stations operate with the same spreading code, wherein the system is a variable data rate system and wherein the step of periodically hopping changes from a currently used spreading code to a next spreading code at the symbol rate, or at a multiple of the symbol rate of the lowest Appl. No. 10/037,422

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spreading gain users.

21.(Previously Presented) A synchronous, direct sequence code division multiple access

communications system, comprising a controller operating within a coverage area of a base

station for assigning a set of spreading codes to individual ones of a plurality of subscriber

stations; and further comprising circuitry that is responsive to transmissions within a cell for

periodically hopping amongst the set of spreading codes at a symbol rate or a multiple of a

symbol rate such that at any given time no two subscriber stations interfere with one another

by the use of the same spreading code, wherein the set of spreading codes comprises a

hopped sub-set of a larger set of spreading codes, and where said controller further assigns a

non-hopped sub-set of the larger set of spreading codes to individual ones of said plurality of

subscriber stations for use on at least one of a system access channel or a system control

channel.

22.(Original) A system as in claim 21, wherein the set of spreading codes comprises an all

ones spreading code.

23.(Original) A system as in claim 21, wherein the system operates as one of a fixed data

rate system and a variable data rate system.

24.(Original) A system as in claim 21, wherein the hops between spreading codes are made

at a symbol boundary of all of the subscriber stations.

25.(Previously Presented) A synchronous code division multiple access communications

system, comprising a controller operating within a coverage area of a base station for

assigning a set of spreading codes to individual ones of a plurality of subscriber stations, said

spreading codes comprising orthogonal, Walsh-Hadamard constructions having a variable

spreading factor; and further comprising circuitry that is responsive to transmissions within a

cell for periodically hopping amongst the set of spreading codes such that at any given time

no two subscriber stations operate with the same spreading code, where the hops between

spreading codes are made at a symbol boundary of at least one of the plurality of subscriber

stations.

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26.(Previously Presented) A method for operating a synchronous code division multiple access communications system, comprising:

within a coverage area of a base station, assigning a set of spreading codes to individual ones of a plurality of subscriber stations, the spreading codes comprising orthogonal, Walsh-Hadamard constructions having a variable spreading factor; and

during transmissions within a cell, periodically hopping amongst individual ones of the spreading codes of the set of spreading codes such that at any given time no two subscriber stations operate with the same spreading code, where the hops between spreading codes are made at a symbol boundary of at least one of the plurality of subscriber stations.